

# EUROPEAN PATENT OFFICE

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TITLE : SUSTAINABLE ALCOHOLIC GERMICIDE

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a germicide having high immediate effect, sustainability and high safety, containing an organic acid, chitosan and ethanol.

SOLUTION: This chemical agent contains 0.01 to 1wt.% organic acid, 0.01 to 1wt.% chitosan and 30 to 72wt.% ethanol. Further, a perfume, coloring matter, humectant, lubricant, solvent, deodorant, etc., can be blended in this agent at one's discretion. It is used by atomizing in spray, etc., or as an aerosol. It can also be used as alcohol tissue by impregnating it into nonwoven fabric. The organic acid is, e.g. lactic acid, acetic acid, succinic acid. By this method, high immediate germicidal effect by the ethanol and sustainable germicidal effect by the nonvolatile chitosan even after the vaporization of the ethanol are afforded. Since the organic acid, chitosan and ethanol are daily eaten at the food additives, it can be used in cooking utensils without problems, being a highly safe germicide.

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